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<400> 7851

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<223> Accession number cg43916991

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<210> 7863
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<213> Homo sapiens

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<210> 7866
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<400> 7866
cactgcctgc accccaagct gcagacacca agcgcttcat caagtgtac 50

<210> 7867
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<210> 7868
 <211> 14
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 <223> cSNP translation

<400> 7868
 Val Ser Thr Ser Ser His Ala Asp Ala Asp Cys Phe Leu Cys
 1 5 10

<210> 7869
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 <212> PRT
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 <223> cSNP translation

<400> 7869
 Asp Gly Thr Pro Thr Ser Leu Gln Glu Val Ala Pro His Thr
 1 5 10

<210> 7870
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<400> 7870
 Gly Lys Pro Leu Ser Val Asp Leu Gly Pro Gly Ile Met Gly
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<210> 7871
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<400> 7871
Lys Pro Leu Ser Val Glu Val Gly Pro Gly Ile Met Gly Ala
1 5 10

<210> 7872
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<400> 7872
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1 5 10

<210> 7873
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<400> 7873
Lys Arg Val Arg Thr Glu Glu Ile Gln Met Ala Val Ser Cys
1 5 10

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<400> 7874
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<210> 7875
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<400> 7875
Tyr Ala Asp Ser Leu Thr His Cys Ser His Pro Ser Ala Ile
1 5 10

<210> 7876
<211> 14
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<400> 7876
Pro Thr Gly Ile Phe Ile Leu Asn Pro Ile Ser Gly Gln Leu
1 5 10

<210> 7877
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<400> 7877
Ala Gly Tyr Ile Arg Gln Val Gly Asp Phe His Gln Val Ile
1 5 10

<210> 7878
<211> 14
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<400> 7878
Ile Asn Ala Ser Thr Gly Asp Tyr Leu Leu Glu Ser Val Asn
1 5 10

<210> 7879
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<213> Homo sapiens

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<400> 7879
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1 5 10

<210> 7880
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<400> 7880

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<210> 7882

<211> 14

<212> PRT

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<222> (7)...(0)

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<400> 7882

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<210> 7883

<211> 14

<212> PRT

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<222> (7)...(0)

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<400> 7883

Asp Pro Glu Gly Ile Leu Phe Ala Trp Ala Gly Ser Arg Gly
1 5 10

<210> 7884

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<212> PRT

<213> Homo sapiens

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<223> cSNP translation

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Pro Thr Gln Pro His Glu Asp Val Cys His Gln Glu Asp Pro
1 5 10

<210> 7885

<211> 14
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1 5 10

<210> 7886
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<400> 7886
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<210> 7887
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<400> 7887
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<210> 7888
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<400> 7888
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<210> 7889
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<400> 7889

Leu Arg Thr Gly Glu Ser Val Glu Phe Val Cys Lys Arg Gly
1 5 10

<210> 7890

<211> 14

<212> PRT

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<223> cSNP translation

<400> 7890

Ser His Val Leu His Ser Lys Leu Ser Gln Cys Pro Glu Val
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<210> 7891

<211> 14

<212> PRT

<213> Homo sapiens

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<222> (7)...(0)

<223> cSNP translation

<400> 7891

Pro Arg Pro Leu Arg Arg Val Val Leu Phe Tyr Gln Gly Lys
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<210> 7892

<211> 14

<212> PRT

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<223> cSNP translation

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<210> 7893

<211> 14

<212> PRT

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<222> (7)...(0)

<223> cSNP translation

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<210> 7894

<211> 14

<212> PRT

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<222> (7)...(0)

<223> cSNP translation

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<210> 7895

<211> 14

<212> PRT

<213> Homo sapiens

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<222> (7)...(0)

<223> cSNP translation

<400> 7895

Ile Glu Lys His Ala Gly Val Val Thr Gly Gly Trp Asp Asn
1 5 10

<210> 7896

<211> 14

<212> PRT

<213> Homo sapiens

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<222> (7)...(0)

<223> cSNP translation

<400> 7896

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1 5 10

<210> 7897

<211> 14

<212> PRT

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<222> (7)...(0)

<223> cSNP translation

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Glu Ile Met Leu Ala Ala Arg Lys Gly Leu Asp Pro Tyr Asn
1 5 10

<210> 7898

<211> 14

<212> PRT

<213> Homo sapiens

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<222> (7)...(0)

<223> cSNP translation

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Lys Gly Ala Ser Gly Thr Lys Glu Asp Pro Asn Leu Val Pro
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<210> 7899

<211> 14

<212> PRT

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<222> (7)...(0)

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Asn Leu Val Pro Ser Ile Thr Asn Lys Arg Ile Val Gly Cys
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<211> 14

<212> PRT

<213> Homo sapiens

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<222> (7)...(0)

<223> cSNP translation

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<210> 7901

<211> 14

<212> PRT

<213> Homo sapiens

<220>

<221> VARIANT

<222> (7)...(0)

<223> cSNP translation

<400> 7901

Arg Gly Val Leu Glu Gln Val Arg Trp Phe Ala Gly Lys Gln
 1 5 10

<210> 7902

<211> 14

<212> PRT

<213> Homo sapiens

<220>

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<222> (7)...(0)

<223> cSNP translation

<400> 7902

Asn Met Ala Ala Met Phe Ala Ile Tyr His Gly Ser His Gly
 1 5 10

<210> 7903

<211> 13

<212> PRT

<213> Homo sapiens

<220>
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<400> 7903
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1 5 10

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<400> 7904
His Ala Pro Glu Arg Asp Leu Cys Arg Cys Pro Arg Glu Gly
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<210> 7905
<211> 14
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<210> 7906
<211> 14
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<400> 7906
Met Ala Lys Ala Ala Ala Val Gly Ile Asp Leu Gly Thr Thr
1 5 10

<210> 7907
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<400> 7907
Pro Thr Thr Ser Asn Arg His Arg Arg Gln Ile Asp Arg Gly
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<210> 7908
<211> 14
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<400> 7908
Gly Val Val Asp Ser Glu Glu Ile Pro Leu Asn Leu Ser Arg
1 5 10

<210> 7909
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<212> PRT
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<400> 7909
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1 5 10

<210> 7910
<211> 14
<212> PRT
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<400> 7910
Met Asp Asp Ile Glu Arg Val Val Asp Asp Gly Val Asn Thr
1 5 10

<210> 7911
<211> 14
<212> PRT
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<400> 7911
Tyr Leu Thr Asp Asn Leu Ser Phe Ser Ser Ile Tyr Ala Leu
1 5 10

<210> 7912
<211> 14
<212> PRT
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<220>
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<223> cSNP translation

<400> 7912

Phe Leu Gly Ile Pro Phe Gly Lys Pro Pro Leu Gly Pro Leu
1 5 10

<210> 7913

<211> 14

<212> PRT

<213> Homo sapiens

<220>

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<222> (7)...(0)

<223> cSNP translation

<400> 7913

Gly Ala Asn Thr Gln Ala Gly Gln Lys Leu Lys Asp Lys Glu
1 5 10

<210> 7914

<211> 14

<212> PRT

<213> Homo sapiens

<220>

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<222> (7)...(0)

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Gly Leu Ser Phe Ile Ser Ser Gly Leu Lys Tyr Pro Gly Met
1 5 10

<210> 7915

<211> 14

<212> PRT

<213> Homo sapiens

<220>

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<222> (7)...(0)

<223> cSNP translation

<400> 7915

Ala Gly Arg Asp Ile Ser Leu Arg Pro Leu Leu Glu His Cys
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<210> 7916

<211> 14

<212> PRT

<213> Homo sapiens

<220>

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<222> (7)...(0)

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<400> 7916

Gly Arg Asp Ile Ser Ile His Pro Leu Leu Glu His Cys Glu
1 5 10

<210> 7917

<211> 14
<212> PRT
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<222> (7)...(0)
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<400> 7917
Ser Gln Pro Val Thr Phe Gly Thr Asn Ser Thr Tyr Ala Ala
1 5 10

<210> 7918
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<212> PRT
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<220>
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<400> 7918
Leu Asp Val Leu Glu Glu Gly Tyr Thr Thr Glu His Trp Leu
1 5 10

<210> 7919
<211> 14
<212> PRT
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<220>
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<222> (7)...(0)
<223> cSNP translation

<400> 7919
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1 5 10

<210> 7920
<211> 14
<212> PRT
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<400> 7920
Ala Val Lys Glu Gly Thr Val Gly Leu Thr Pro Ala Val Ser
1 5 10

<210> 7921
<211> 14
<212> PRT
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<223> cSNP translation

<400> 7921

Ser Pro Gln Asp Ser His Glu Thr His Ser Pro Pro His Leu
1 5 10

<210> 7922

<211> 8

<212> PRT

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<220>

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<223> cSNP translation

<400> 7922

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<210> 7923

<211> 14

<212> PRT

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<222> (7)...(0)

<223> cSNP translation

<400> 7923

His Ser Arg Arg Gln Pro His Val Val Ser Gln Trp Ser Thr
1 5 10

<210> 7924

<211> 14

<212> PRT

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<222> (7)...(0)

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<400> 7924

Ala Leu Gly Ala Ser Gly Thr Ser Gly His Glu Leu Ser Ala
1 5 10

<210> 7925

<211> 14

<212> PRT

<213> Homo sapiens

<220>

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<222> (7)...(0)

<223> cSNP translation

<400> 7925

Leu Ile Gly Glu Lys Ile Val Tyr Cys Glu Leu Lys Gly Ser
1 5 10

<210> 7926

<211> 14

<212> PRT

<213> Homo sapiens

<220>
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<400> 7926
Cys Lys Ala Ser Cys Lys Val Pro Val Lys Lys Ala Thr Val
1 5 10

<210> 7927
<211> 14
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<400> 7927
Ser Tyr Ala Gln Tyr Glu Arg Tyr Leu Lys Ser Asp Asn Met
1 5 10

<210> 7928
<211> 14
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<220>
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<400> 7928
Asp Phe Tyr Val Met Pro Val Val Asn Val Asp Gly Tyr Asp
1 5 10

<210> 7929
<211> 14
<212> PRT
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<220>
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<222> (7)...(0)
<223> cSNP translation

<400> 7929
Lys Phe Ser Arg Ser Ala Glu Ala Pro Ala Tyr Gln Gln Gly
1 5 10

<210> 7930
<211> 14
<212> PRT
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<220>
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<400> 7930

Ser Asp Met Thr Val Thr Ile Gln Phe Thr Asn Pro Leu Lys
1 5 10

<210> 7931
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<220>
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<400> 7931
Ser Ser Phe Gly Tyr Gly Ala Leu Gln Gly Pro Ala Ser Gly
1 5 10

<210> 7932
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<400> 7932
Asp Tyr Thr His Ala Leu Val Arg His Asp Pro Leu Gly Lys
1 5 10

<210> 7933
<211> 14
<212> PRT
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<220>
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<400> 7933
Ala Lys Thr Thr Ser Lys Asp Ser Ser Ile Ala Asp Leu Arg
1 5 10

<210> 7934
<211> 14
<212> PRT
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<220>
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<222> (7)...(0)
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<400> 7934
Ala Val Lys Thr Ala Phe Phe Leu Ala Glu Phe Phe Val Asn
1 5 10

<210> 7935
<211> 14
<212> PRT
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<220>
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<223> cSNP translation

<400> 7935
Val Ser Arg Phe Lys Ala Ile Lys Ala Arg Phe Ala Lys Pro
1 5 10

<210> 7936
<211> 14
<212> PRT
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<223> cSNP translation

<400> 7936
Pro His Gly Leu Ile Met Asn Arg Thr Glu Arg Leu Ala Arg
1 5 10

<210> 7937
<211> 12
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<220>
<221> VARIANT
<222> (7)...(0)
<223> cSNP translation

<400> 7937
Pro Asp Ser Ser Met Glu Ser Ser Pro Asp Phe Phe
1 5 10

<210> 7938
<211> 14
<212> PRT
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<220>
<221> VARIANT
<222> (7)...(0)
<223> cSNP translation

<400> 7938
Pro Ser Leu Ser Leu Thr Glu Ala Val Gln Ser Gly Pro His
1 5 10

<210> 7939
<211> 14
<212> PRT
<213> Homo sapiens

<220>
<221> VARIANT
<222> (7)...(0)
<223> cSNP translation

<400> 7939
Met Thr Ile Leu Leu Ile Val Ile Pro Val Leu Val Val Gln
1 5 10

<210> 7940
<211> 14
<212> PRT
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<220>
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<223> cSNP translation

<400> 7940
Met Thr Ile Leu Leu Ile Val Ile Pro Val Leu Val Val Gln
1 5 10

<210> 7941
<211> 14
<212> PRT
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<220>
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<400> 7941
Pro Gly Lys Ser Lys Ala Ser Pro Glu Lys Ser Leu His Asp
1 5 10

<210> 7942
<211> 14
<212> PRT
<213> Homo sapiens

<220>
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<222> (7)...(0)
<223> cSNP translation

<400> 7942
Cys Leu Glu Ala Leu Glu Ile Asp Pro Ser Asn Thr Lys Ala
1 5 10

<210> 7943
<211> 14
<212> PRT
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<220>
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<222> (7)...(0)
<223> cSNP translation

<400> 7943
Ala Asp Lys Thr Trp Asn Val Val Leu Leu Arg Tyr Phe Asn
1 5 10

<210> 7944
<211> 14
<212> PRT
<213> Homo sapiens

<220>
<221> VARIANT

<222> (7)...(0)
<223> cSNP translation

<400> 7944
Gln Phe Tyr Ala Leu Leu Ile Lys Gly Leu Gly Leu Glu Ser
1 5 10

<210> 7945
<211> 14
<212> PRT
<213> Homo sapiens

<220>
<221> VARIANT
<222> (7)...(0)
<223> cSNP translation

<400> 7945
Leu Arg Glu Ala Thr Leu Val Thr Ile Lys His Glu Leu Phe
1 5 10

<210> 7946
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Ser Asn Ser Ser Gln Arg Ile Pro Leu Gln Ala Gln Lys Leu
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Lys Tyr Asn Ile Glu Leu Asn Pro Arg Phe Asn Asp Ile Leu
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Pro Gly Thr Asp His Ile Asn Gln Leu Lys Leu Ile Leu Arg
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Leu Asn Ser Ser Pro Arg Val Pro Val Ser Pro Leu Lys Phe
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Ala Ser His Val Ser Lys Val Val Cys Ser Thr Tyr Leu Gln
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Pro Ala Val Gly Pro Thr Ala Phe His Lys Arg Tyr Leu Lys
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Pro Ala Val Gly Pro Thr Ile Phe His Lys Arg Tyr Leu Lys
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Tyr Ile Arg Leu Arg Leu Glu Arg Ile Arg Thr Leu Asn Ala
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Val Met Pro His Ser Ser Val His Lys Thr Ala Gln Pro Asn
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Glu Glu Glu Asn Lys Ala Val Glu Lys Met Pro Arg Glu Leu
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Pro Ser Leu Cys Thr Leu Ala Pro Leu Gly Pro Glu Cys Leu
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Gly His Thr Ile Pro Gln Ala His Trp Thr Lys Leu Gln His
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Val Ser Gln Ser Pro Leu Leu
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Val Leu Ile Glu Asn Val Gly Ser Leu
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1 5 10

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1 5 10

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1 5 10

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Cys His Lys Ile Pro Val Asp Ala Asp Phe Leu Tyr Ala Tyr
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Thr Gly Met Leu Asn Ser His Val Ile Glu Ile Met Gln Lys
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Ala Leu Ser Leu Gly Ala Asp Gln Arg Thr Glu Ser Ile Ile
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Tyr Gly Val Ser Leu Ile Asn Pro Lys Thr Lys Asp Ile Leu
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His Pro Glu Gln Lys Glu Asp Ile Gly Gln Arg Gln Lys His
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1 5 10

<210> 8006
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Arg Arg Asp Gly Lys Trp Glu Asn Val His Phe His Arg Ser
1 5 10

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1 5 10

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Val His Arg Cys Thr Glu Lys Ser Thr Gly Leu Ala Leu Ala
1 5 10

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1 5 10

<210> 8011
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1 5 10

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1 5 10

<210> 8013

<211> 14
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1 5 10

<210> 8017
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<212> PRT
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<400> 8017
Cys Asn Glu Ser Ser Met Glu Ser Leu Arg Gln Arg Lys Ser
1 5 10

<210> 8018
<211> 14
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<400> 8018
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1 5 10

<210> 8019
<211> 14
<212> PRT
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<400> 8019
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<400> 8020
Thr Gly Met Trp Ala Pro Asp Arg Ser Ala Glu Ala Arg Gly
1 5 10

<210> 8021
<211> 14
<212> PRT
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Thr Ile Phe Tyr Ala Leu Ala Tyr His His Ile Met Thr Ala
1 5 10

<210> 8022
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<210> 8023

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<210> 8024

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Leu Ala Pro Gln Gln Arg Ala Ala Pro Gln Gln Lys Arg Ser
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<210> 8025

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<400> 8025

Gly Gly Ala Val Ala Asp Leu Glu Pro Arg Pro Thr Arg Trp
1 5 10

<210> 8026

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<400> 8026

Lys Gly Gly Ala Val Ala Glu Val Glu Pro Arg Pro Thr Arg
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<400> 8027

Leu Pro Asp Ile Thr Leu Tyr
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<210> 8028

<211> 14

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<400> 8028

Gln Phe Ser Thr Leu Val Asp Ser Thr Ala Thr Ala Gly Lys
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<211> 14

<212> PRT

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<400> 8029

Lys Ser Ile Asp Asp Ser Asp Met Glu Ser Pro Val Asp Asp
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<210> 8030

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<212> PRT

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<400> 8030

Gln Ala Ala His His Gly Val Asp Ala Gly Met Gly Asp Ser
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<210> 8031

<211> 14

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<400> 8031
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1 5 10

<210> 8032
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<400> 8032
Asn Ala Arg Asp Thr Tyr Leu Ser Ser Phe Pro Arg Ala Pro
1 5 10

<210> 8033
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Arg Pro Asp Ala Ala Met Thr Ala Ala Leu Phe Ser Leu Asp
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Arg Leu Gln Pro Pro Pro Gly Gln Ala Glu Gly Ala Phe Pro
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Tyr Val Ile Glu Ile Phe His Arg Pro Lys Ser His
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Lys Ser Ser Ala Gly Gly Gly Lys Ala Gly Gln Pro Glu Ser
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Cys Asp Glu Cys Gly Lys Gly Phe Ser Gln Ser Ser Asp Leu
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Gln Asp Ser Asp Cys Lys Val Ser Pro Glu Gly Arg Glu Ala
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1 5 10

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1 5 10

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1 5 10

<210> 8098
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1 5 10

<210> 8100
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1 5 10

<210> 8102
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<210> 8103
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<210> 8104
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<210> 8107
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<400> 8107
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<210> 8108
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<400> 8111
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1 5 10

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<400> 8116
Ala Lys Leu Pro Pro Asn Val Leu Arg Ile Ser Lys Glu Val
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<400> 8117
Ala Gln Val Asp Pro Lys Ala Ser Leu Pro Lys Trp Val Val
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<210> 8118
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<400> 8118

Arg Ser Lys Lys Ala Gly Arg

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<210> 8119

<211> 14

<212> PRT

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<223> cSNP translation

<400> 8119

Glu Glu Cys Asp Met Lys Lys Met His Tyr Val Asp Pro Asp

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His Pro Ser Glu Leu Ile Gly Glu Met Arg Asn Ser Gly Phe

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Arg Ser Arg Arg Ser Arg Thr Arg Ser Pro Gly Ser Tyr Lys
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 Trp Ile Phe Val Lys Asp Ala Pro Asn Ser Gln Leu Arg His
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 Glu Gln Val Pro Gln Ala Ile Arg Arg Leu Arg Pro Arg Thr
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Leu Arg Gly Arg Ser Glu Val Glu Ile Arg Val Phe Leu Gln
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Tyr Asn Ser Lys Tyr Lys Thr Tyr Asp Ile Ala Gln Asp Ala
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Tyr Ile Ala Glu Trp Lys Arg Gly Leu Leu Glu His Lys Met
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<400> 8203
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<400> 8204
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<400> 8205
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<400> 8206
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Arg Arg Leu Lys Lys Gly Met Lys Ser Lys Arg Ser Met Asn
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Arg Leu Lys Lys Gly Lys
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Val Ala Ala Ser Phe Leu Met Arg
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Leu Phe Phe Gly Arg Phe Cys Ser

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Arg Gly Ser Gly Gly Ala Pro Gly Ala Pro Gly Glu Arg Gly

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Leu Leu Ser Leu Leu
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1 5 10

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Ala Glu Pro Tyr Pro Thr Pro Arg Phe Gly Ser Gln Cys Met
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Gln Met Glu Gln Leu Arg Lys Lys Leu Gly Pro His Ala Gly
1 5 10

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Lys Ile Ser Leu Arg Glu Glu Leu Cys Gly Cys Ser Ile Asn
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Arg Thr Ala Tyr Gly Pro Lys Gly Met Asn Lys Met Val Ile
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Glu Met Asp Val Tyr Gln Gly Arg Phe Gln Asp Asn Gly Ala
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Glu Ile His Gly Val Ser Gln Asp Val Ala Ser Arg Gln Thr
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Tyr Glu Pro Ser Glu Thr Thr Lys Ala Gln Arg Gln Met Thr
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Pro Glu Asn Gly Pro Glu His Pro Gln Ala Gly Ser Ser Thr
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1 5 10

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1 5 10

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1 5 10

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1 5 10

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<400> 8371

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1 5 10

<210> 8372

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1 5 10

<210> 8373

<211> 14

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<400> 8373

Tyr Ala Ala Ser Gly Gly Phe Arg Gln Val Pro Val Lys Trp
1 5 10

<210> 8374

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<400> 8374

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<210> 8375

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<400> 8375

Gly Glu Leu Arg Asp His Cys Met Glu Ile Thr Ile Arg Asn
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<400> 8376

Ser Glu Thr Thr Lys Gly Ser Tyr Ser Leu Ser Ile Arg Asp
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Glu Asp Gln Pro Arg Cys Pro Ser Leu Asp Ser Ala Leu Leu
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<400> 8379

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<400> 8380

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<400> 8381

Glu Asn Gly Ala Val Glu Met Pro Arg Cys Ser Arg Gly Gln
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<210> 8382

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His Glu His Arg Lys Leu
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Arg Glu Gln Ala Arg Gln Asp Val Lys Gly Leu Glu Glu Thr
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1 5 10

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1 5 10

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Tyr Thr Asn Ile Lys Tyr Pro Leu Ala Asp Gln Thr Ser Gly
1 5 10

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1 5 10

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1 5 10

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1 5 10

<210> 8459
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<400> 8459
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1 5 10

<210> 8460
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<212> PRT
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1 5 10

<210> 8461

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1 5 10

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1 5 10

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Thr Asp Thr Ile Tyr Asp Val Asp Glu Val Leu Leu Ala Leu
1 5 10

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1 5 10

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<212> PRT

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Gly Ala Phe Val Gly Trp Arg Leu Phe Phe Gln Gln Asn Ala
1 5 10

<210> 8468

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<212> PRT

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Phe Arg Gln Leu Gln Lys Gly Lys Phe Gln Ile Ser Asn Asn
1 5 10

<210> 8469

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<212> PRT

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Ser Pro Val Ala Thr Ala Gln Ser
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Ala Arg Gly Glu Pro Ala Leu Val Val Leu Thr Ser Leu Leu
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Leu Ala Pro Ser Ile Thr Thr Val Leu Val Gln Gly Lys Gln
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Gly Arg Phe His Met Tyr Gly Gly Tyr Pro Leu Trp Lys Val
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Gly Arg Phe His Met Tyr Lys Gly Tyr Pro Leu Trp Lys Val
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Gln Met Gln Ala His Ala Gln Ala Gln Pro Gln Thr Thr Met
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 Glu Tyr Lys Leu Arg Ser His Thr Leu Asn Ala Val Ser Phe
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<210> 8481
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1 5 10

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Lys Leu Thr Arg Ala Glu Thr Val Phe Pro Asp Val Asp Tyr
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Pro Pro Glu Val Lys Phe Lys Lys Pro Phe Val Phe Leu Met
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<400> 8497

Leu Asp Thr Val Thr Ala Arg Gln Lys Asn Leu Lys Ser Ala
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<210> 8498

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<212> PRT

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1 5 10

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1 5 10

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1 5 10

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1 5 10

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<400> 8510
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1 5 10

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<400> 8520

Leu Gln Ala Gln Tyr Ser Pro Lys Ser Ala Leu Glu Asn Met
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Leu Glu Ile Asp Leu Gln Thr Gln Tyr Ser Thr Lys Ser Ala
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Arg Lys Glu Ala Lys Lys Arg Gly His Lys Lys Pro Arg Lys
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<211> 14

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Tyr Thr Ala Leu Ser Glu Arg Glu Ser Pro Arg Leu Phe Ser
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<400> 8525
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<400> 8528
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1 5 10

<210> 8530

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Leu Trp Asp Thr Ala Lys Ser Val Lys Gly Lys Phe Gly Arg
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<210> 8532

<211> 14

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<220>

<221> VARIANT

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<210> 8533

<211> 14

<212> PRT

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<210> 8534

<211> 14

<212> PRT

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<220>

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Phe Cys Arg Arg Pro Val Asn Phe Glu Leu Met Ser Glu Trp
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<210> 8535

<211> 14

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<221> VARIANT

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Asp Ile Thr Lys Arg Glu Lys Phe Ser Pro Leu Thr Ala Asn
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<211> 14

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<211> 14

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<221> VARIANT

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<400> 8537

Ala Leu Lys Val Pro Val Leu Glu Asp Lys Tyr Thr Ala Gln
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<211> 14

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Val Glu Asn Ala Leu Met Glu His Pro Ala Val Val Glu Thr
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<210> 8540
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<400> 8541
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<210> 8542
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<400> 8542
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<210> 8543
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<400> 8543
Glu Tyr Gly Leu Ala Ser Phe Cys Asn Gly Gly Gly Gly Ala
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<210> 8544
<211> 14
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<220>
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<222> (7)...(0)
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Met Cys Asn Glu Ser Ser Ile Gln Ser Leu Arg Gln Arg Lys
1 5 10

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<400> 8545
Asn Glu Ser Ser Met Gln Arg Leu Arg Gln Arg Lys Ser Val
1 5 10

<210> 8546
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<400> 8546
Val Ile Val Cys Cys Cys His Val Lys Ile Tyr Ile Thr Val
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<210> 8547
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<400> 8547
Ser Ala Pro Arg Val Thr Asn Gly Ser Thr Tyr Ile Leu Val
1 5 10

<210> 8548
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Arg Arg Arg Arg Ser Ala Thr Thr Phe Leu Leu Phe Val Ala
1 5 10

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<400> 8549
Gly Met Trp Ala Pro Glu Gly Ser Ala Glu Ala Arg Gly Asn
1 5 10

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<400> 8550
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1 5 10

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<223> cSNP translation

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Gly Met Trp Ala Pro Glu Gly Ser Ala Glu Ala Arg Gly Asn
1 5 10

<210> 8553

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<222> (7)...(0)

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1 5 10

<210> 8554

<211> 14

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<221> VARIANT

<222> (7)...(0)

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<400> 8554

Leu Ile Ser Ile Pro Pro Ile Leu Gly Trp Arg Thr Pro Glu
1 5 10

<210> 8555

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<223> cSNP translation

<400> 8555

Gln Leu Ala Leu Trp Ala Thr Ala Tyr Leu Ala Leu Val Leu
1 5 10

<210> 8556

<211> 14

<212> PRT

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<223> cSNP translation

<400> 8556

His Val Lys Leu Ser Ser Ala Trp Tyr Met Gly Gln Gly Lys
1 5 10

<210> 8557

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Gly Glu Met Val Ala Arg Arg Ser Leu Ser Val Ala Leu Lys
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Ala Pro Ala Ala Gln Gly Thr Ser Ser Arg Pro Gln Ala Ser
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Tyr Gly Val Asp Lys Lys Pro Lys Arg Gly Met Pro Asp Val
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Tyr Gly Val Asp Lys Lys Gly Lys Arg Gly Met Pro Asp Val
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Gly Phe Pro Ala Leu Pro Met Pro Pro Pro
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Lys Gly Ser Val Arg Lys Leu Leu Leu Lys Phe Ile Pro Gly
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Gly Ala Phe Ser Arg Gln Gln Ser Thr Asp Asp Glu Cys Phe
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Leu His Ile His Gln Arg Glu His Thr Gly Glu Arg Pro Tyr
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Gln Ser Ser Asn Leu His Ser His Gln Arg Val His Lys Lys
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Gln Tyr Ile Lys Tyr
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1 5 10

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Tyr Phe Glu Lys Val Leu Asn Ser Ser Asp Thr Ser Leu Trp
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1 5 10

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<220>

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Glu Ile Lys Ser Lys Lys Met Lys Glu Lys Ser Lys Lys Gln
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<210> 8621

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Lys Gly Ser Gln Phe Gly His Ser Cys Cys Leu Arg Ala Lys
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<400> 8625

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1 5 10

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<211> 14

<212> PRT

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<222> (7)...(0)

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His Asn Ser Thr Asn Ser Glu Phe Ala Ala Glu Ala Glu Gly
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<211> 14

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<400> 8632

Gln Ser Arg Glu Ile Asp Cys Leu Ser Pro Glu Ala Gln Lys
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<211> 14

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<400> 8633

Lys Phe Gln Phe Glu Arg Phe Gly Tyr Phe Ser Val Asp Pro
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<223> cSNP translation

<400> 8634

Ala Asn Ser Arg Leu Pro
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<400> 8635
Leu Ile Ile Ser His Asn Thr Ile Gln Tyr Leu Asp Ile Ser
1 5 10

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<400> 8636
Thr Val Thr Ser Leu Cys Ile Tyr Leu Asp Leu Pro Trp Tyr
1 5 10

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<400> 8637
Asp Ser Pro Asp Ser His Ser Asp Leu Glu Ser Asn Val Glu
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<400> 8638
Asn Leu Arg Pro Phe His Asp Arg Met Glu Glu Cys Phe Lys
1 5 10

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Cys Ala Leu Gly Leu Ala Met Gln Asp Ala Thr Leu Ser Lys
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<400> 8640
Gly Thr Leu Ser Pro Ser Leu Val Asn Ser Ser Ile Leu Lys
1 5 10

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<400> 8641
Lys Pro Thr Gln Asp Ser Phe Glu Asn Thr Glu Ala His Gln
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<400> 8642
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<400> 8643
Glu Val Asp Leu Phe Ile Phe Thr Gln Arg Ile Lys Val Leu
1 5 10

<210> 8644
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<212> PRT
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<223> cSNP translation

<400> 8644
Glu Val Asp Leu Phe Ile Pro Thr Gln Arg Ile Lys Val Leu
1 5 10

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Leu Ser Gly Ser Ser Leu Ser Gln Ala Pro Ser His Met Tyr
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Phe Gly Thr Asn Ala Ala Glu Phe Gln Thr Lys Thr Glu Glu
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Ser Pro Glu Ala Lys Pro Ser Pro Gly Lys Leu Pro Lys Gly
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Val Glu Lys Gln Gln Leu Ala Glu Gln Pro Phe Glu Lys Ala
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Trp Pro Thr Asp Val Leu Asn Gly Ala Ala Leu Ser Gln Tyr
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<212> PRT

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Tyr Gly Gln Asp Trp Arg Asn Tyr Tyr Lys Val Glu Pro Leu
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<210> 8703

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<220>
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Gln Glu Trp Tyr Ala Arg Arg His Cys Pro Leu Lys Asn Pro
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Phe Gly Ser Phe Ser Asn Met Val Pro Cys Ser His Pro Tyr
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<400> 8706
Pro Leu Asp Val Ala Thr Asn Val Ser Ser Ala Lys Ala Thr
1 5 10

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1 5 10

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1 5 10

<210> 8709
<211> 14
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<220>
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<400> 8709
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1 5 10

<210> 8710
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<400> 8710
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<210> 8711
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<400> 8711
Gly Cys Lys Ser Ala Ser Pro Lys His Cys Leu Asn Gly Glu
1 5 10

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1 5 10

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<220>
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Pro Val Ile Pro Asn Val Ala Phe Leu Trp Ala Trp Asn Ala
1 5 10

<210> 8714
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<220>
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Gln Arg Leu Ser Ala Leu Trp Arg Tyr Gln Asp Lys Arg Leu
1 5 10

<210> 8715
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<220>
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<400> 8715
Leu His Gly Met Ile Met Phe Arg Ile Ser Asp Asp Lys Tyr
1 5 10

<210> 8716
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Arg Gln Phe Val Glu Met Pro Arg Thr Arg Ile Glu Gly Leu
1 5 10

<210> 8717

<211> 14
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<400> 8717
Leu Ser Lys Glu Asn Gln Ser Glu Asn Ser Gln Thr Pro Thr
1 5 10

<210> 8718
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<400> 8718
Thr Val Arg Lys Ala Asp Ala Gly Gly Leu Gly Ile Ser Ile
1 5 10

<210> 8719
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1 5 10

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<212> PRT
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<400> 8720
Gln Glu Ala Thr Cys Ser Pro Pro Gln Ile Val Pro Glu Pro
1 5 10

<210> 8721
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<400> 8721
Gln Glu Ala Thr Cys Ser Gly Pro Gln Ile Val Pro Glu Pro
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<210> 8722
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<400> 8722
Val Asp Met Ser Gly Asp Ser Gly Trp Leu Leu Asn Leu Phe
1 5 10

<210> 8723
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<400> 8723
Leu Leu Ser His Glu Gln Asn Gly Arg His Gln His Gly Ser
1 5 10

<210> 8724
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<212> PRT
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<400> 8724
His Leu Ala Ser His His Arg Asn Thr Gly Trp Val Leu Cys
1 5 10

<210> 8725
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<400> 8725
Ile Ala Leu Tyr Cys His Gly Phe Gly Glu Lys Tyr Leu Gly
1 5 10

<210> 8726
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<400> 8726

Gly Thr Leu Gln Leu Gly Gly Ala Leu Arg Pro Arg Gly Leu
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<400> 8727

Lys Ile Arg Glu Glu Ile Val His Phe Gly Ile Lys Ile Tyr
1 5 10

<210> 8728

<211> 14

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Pro Ala Arg Trp Leu Thr Asn Leu Leu Arg Leu Leu Val Leu
1 5 10

<210> 8729

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<400> 8729

Met Pro Ala Arg Trp Leu Lys His Leu Leu Arg Leu Leu Val
1 5 10

<210> 8730

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<400> 8730

Phe Leu Gly Lys Met Ala Glu Tyr Asp Leu Thr Thr Arg Ile
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<210> 8731
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<400> 8731
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<400> 8810
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<400> 8811
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<400> 8817

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<400> 8819

Tyr His Leu Pro Ser Ser Gln Val Gly Ser
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<210> 8820

<211> 14

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<220>

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<222> (7)...(0)

<223> cSNP translation

<400> 8820

Val Trp Ala Arg Leu Val Asp Leu His Thr Val His Phe Ile
1 5 10

<210> 8821

<211> 14

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<400> 8821

Thr Gly Gln Ser Phe Phe Arg Val Trp Ala Arg Leu Val Ala
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<210> 8822

<211> 14

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<223> cSNP translation

<400> 8822

Met	Ala	Leu	Tyr	Gln	Ser	Leu	Gly	Phe	Lys	Lys	Thr	Gly	Gln
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<212> PRT

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<400> 8823

Leu	Gln	Leu	Phe	His	Leu	Phe	Val	Asp	Ser	Glu	His	Arg	Arg
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<210> 8824

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<223> cSNP translation

<400> 8824

Ser	Leu	Leu	Trp	Val	Leu	Met	Pro	Leu	Val	Thr	Met	Ala	Trp
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<210> 8825

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<223> cSNP translation

<400> 8825

Gln	Lys	His	Ser	Ser	Gly	Arg	Ser	Asn	Thr	Ser	Thr	Ala	Asn
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<210> 8826

<211> 14

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<400> 8826

Ser Arg Lys Thr Ser Asp Val Val Leu Lys Arg Lys Gln Thr
1 5 10

<210> 8827

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<400> 8827

Trp Ile Lys Ala Arg Val Ala Glu Leu Asn Pro Asp Lys Asn
1 5 10

<210> 8828

<211> 14

<212> PRT

<213> Homo sapiens

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<223> cSNP translation

<400> 8828

Arg Val Phe Glu Lys Tyr Gly Arg Val Gly Asp Val Tyr Ile
1 5 10

<210> 8829

<211> 14

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<220>

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<223> cSNP translation

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His Ser Ile Arg Leu His Phe Ala Leu Gly Asp Pro Ala Pro
1 5 10

<210> 8830

<211> 14

<212> PRT

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<400> 8830

Val Leu Arg Asp Ser Gly Ile His His Ser Ile Arg Leu His
1 5 10

<210> 8831

<211> 7

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Glu Glu Asp Val Thr Val His
1 5

<210> 8832
<211> 14
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<220>
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Ser Ile His Phe Asn Arg Val Asn Pro Asp Gly Glu Glu Glu
1 5 10

<210> 8833
<211> 14
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Trp Gln Lys Asp Gln Leu Glu Thr Gln Leu His Trp Gln Glu
1 5 10

<210> 8834
<211> 14
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<223> cSNP translation

<400> 8834
Pro Gln Pro Leu Ser Ser Gln Ala Pro Leu Ala Lys His Leu
1 5 10

<210> 8835
<211> 14
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<400> 8835
Ala Ser His Pro Ser Ala Leu Phe Gln Ser Pro Pro Thr Pro
1 5 10

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<222> (7)...(0)
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<400> 8836
Arg Gln His Phe Ile Ser Leu Asp Thr Asp Arg Ser Gly Thr
1 5 10

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<400> 8837
Ser Arg Gly Gly Thr Leu Ser Thr Pro Gln Thr Gly Ser Glu
1 5 10

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<222> (7)...(0)
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<400> 8838
Gln Glu Thr Tyr Leu Tyr His Ile Asp Lys Val Asp Ser Asn
1 5 10

<210> 8839
<211> 14
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<222> (7)...(0)
<223> cSNP translation

<400> 8839
Asp Ile Arg Leu Arg Glu Glu Phe Ser Lys Met Cys Phe Glu
1 5 10

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<211> 14
<212> PRT
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<220>
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<222> (7)...(0)

<223> cSNP translation

<400> 8840

Phe Leu Gly Met Ala Val Ser Thr Leu Cys Gly Glu Val Pro
1 5 10

<210> 8841

<211> 14

<212> PRT

<213> Homo sapiens

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<222> (7)...(0)

<223> cSNP translation

<400> 8841

Arg Ser Val Arg Ser Gly Phe Ile Thr Gln Asn Arg Gln Asp
1 5 10

<210> 8842

<211> 14

<212> PRT

<213> Homo sapiens

<220>

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<222> (7)...(0)

<223> cSNP translation

<400> 8842

Glu Ser Gln Val Tyr Leu Trp Gly Thr Gly Leu Arg Gly Lys
1 5 10

<210> 8843

<211> 14

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<400> 8843

Phe Leu Gly Met Ala Val Asn Thr Leu Cys Gly Glu Val Pro
1 5 10

<210> 8844

<211> 14

<212> PRT

<213> Homo sapiens

<220>

<221> VARIANT

<222> (7)...(0)

<223> cSNP translation

<400> 8844

Pro Ser Leu Glu Ala Leu Asn Arg Lys Val His Asn Phe Gln
1 5 10

<210> 8845

<211> 14
<212> PRT
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<220>
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<400> 8845
Ala Ala Gln Ala Val Glu Arg Pro Gly Trp Lys Ala Arg Arg
1 5 10

<210> 8846
<211> 14
<212> PRT
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<220>
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<400> 8846
Leu Leu Asn Arg Asn Asn Ala Val Trp Leu Ile Gln Lys Asn
1 5 10

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<211> 14
<212> PRT
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<220>
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<222> (7)...(0)
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<400> 8847
Ala Pro Pro Pro Ile Asn Lys Leu Ala Leu Phe Pro Asp Lys
1 5 10

<210> 8848
<211> 14
<212> PRT
<213> Homo sapiens

<220>
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<222> (7)...(0)
<223> cSNP translation

<400> 8848
His Met Leu Leu Gly Ile Ser Ser Thr Leu Arg His Ala Val
1 5 10

<210> 8849
<211> 14
<212> PRT
<213> Homo sapiens

<220>
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<222> (7)...(0)
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<400> 8849
Leu Ala Trp Leu Ala Phe Thr Thr Thr Leu Asn Tyr Cys Val
1 5 10

<210> 8850
<211> 14
<212> PRT
<213> Homo sapiens

<220>
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<400> 8850
Ala Met Gln Ala Glu Gly Gln Gly Thr Gly Gly Ser Thr Gly
1 5 10

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<400> 8851
Trp Leu His Lys Ser Thr
1 5

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<211> 6
<212> PRT
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<220>
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<400> 8852
Val Val Lys Ala Pro Asp
1 5

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<211> 14
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<222> (7)...(0)
<223> cSNP translation

<400> 8853
Lys Thr Thr Met Leu Leu Tyr Lys Gln Phe Val Gln Trp Asp
1 5 10

<210> 8854
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<220>

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<222> (7)...(0)

<223> cSNP translation

<400> 8854

Ala Gln Asp Tyr Leu Gln Tyr Val Leu Gln Ile Pro Gln Pro
1 5 10

<210> 8855

<211> 14

<212> PRT

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<220>

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<222> (7)...(0)

<223> cSNP translation

<400> 8855

Thr Ser Arg Val Leu Gln Lys Val Ala Phe Ser Val Gln Lys
1 5 10

<210> 8856

<211> 14

<212> PRT

<213> Homo sapiens

<220>

<221> VARIANT

<222> (7)...(0)

<223> cSNP translation

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Ser Ile Ser Cys Leu Cys Ser Phe Tyr Leu Ile Arg Leu Gln
1 5 10

<210> 8857

<211> 14

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<220>

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<222> (7)...(0)

<223> cSNP translation

<400> 8857

Leu Pro Cys Gly Pro Gly Asp Lys Gly Arg Cys Phe Gly Pro
1 5 10

<210> 8858

<211> 14

<212> PRT

<213> Homo sapiens

<220>

<221> VARIANT

<222> (7)...(0)

<223> cSNP translation

<400> 8858

His Ala Val Tyr Gln Ala Val Leu Ser Leu Lys Asn Ile Pro
1 5 10

<210> 8859
<211> 14
<212> PRT
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<220>
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<222> (7)...(0)
<223> cSNP translation

<400> 8859
Ser Leu Gln Leu Pro Glu Ser Cys Ser Glu Ile Lys His Glu
1 5 10

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<211> 14
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<222> (7)...(0)
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<400> 8860
Ser Ser Trp Thr Arg Val Ser Gln Ser Trp Trp Asp Arg Asn
1 5 10

<210> 8861
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<220>
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<222> (7)...(0)
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<400> 8861
Trp Ile Asn Arg Leu Ala Cys Phe Ser Ser Cys Ile Pro Phe
1 5 10

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<222> (7)...(0)
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Gly Phe Gln Phe Gly Ser Gln Asp
1 5

<210> 8863
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<212> PRT
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<220>
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<222> (7)...(0)
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<400> 8863
Gly Phe Lys Phe Gly Ile Leu Glu Pro Gly Asn Gln Glu Lys
1 5 10

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<211> 7
<212> PRT
<213> Homo sapiens

<220>
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<222> (7)...(0)
<223> cSNP translation

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Ala Ala Ile Asp Phe Tyr Leu
1 5

<210> 8865
<211> 14
<212> PRT
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<222> (7)...(0)
<223> cSNP translation

<400> 8865
Arg Val Ser Ser Asn Ile Leu Glu Asp Pro Val Pro Val Lys
1 5 10

<210> 8866
<211> 14
<212> PRT
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<220>
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<222> (7)...(0)
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<400> 8866
Phe Thr Asp Asn Tyr Thr Gly Leu Arg Lys Gln Met Ala Val
1 5 10

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<211> 11
<212> PRT
<213> Homo sapiens

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<400> 8867
Asn Leu Leu Phe Leu Ala Cys Tyr Cys Ile Gly
1 5 10

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<211> 14
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<400> 8868
Val Gln Asp Gly Ile Val Met Ala Leu Asn Val Glu Pro Asp
1 5 10

<210> 8869
<211> 14
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<213> Homo sapiens

<220>
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<222> (7)...(0)
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<400> 8869
Thr Gly Ala Phe Gly Lys Ala Thr Asp Leu Leu Leu Asp Asp
1 5 10

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<211> 14
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<400> 8870
Val Gly Asp Ala Ile Pro Ser Val Glu Val Phe Glu Gly Glu
1 5 10

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<222> (7)...(0)
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<400> 8871
Gly Ser Leu Tyr Asp Asp Val Arg Met Arg Arg Gln Gly Arg
1 5 10

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<220>
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<222> (7)...(0)

<223> cSNP translation

<400> 8872

Leu Ser Leu Asn Gln His Asn Arg Ala Phe Asn Ile Glu Arg
1 5 10

<210> 8873

<211> 14

<212> PRT

<213> Homo sapiens

<220>

<221> VARIANT

<222> (7)...(0)

<223> cSNP translation

<400> 8873

Gly Ile His Cys Ala Lys Ser Ile Val Ser Gly Ala Arg Gly
1 5 10

<210> 8874

<211> 14

<212> PRT

<213> Homo sapiens

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<222> (7)...(0)

<223> cSNP translation

<400> 8874

Pro Asn Gly Asp Gly Arg Arg Val Thr Cys Ile Tyr Tyr Leu
1 5 10

<210> 8875

<211> 14

<212> PRT

<213> Homo sapiens

<220>

<221> VARIANT

<222> (7)...(0)

<223> cSNP translation

<400> 8875

Phe Ile Glu Leu Pro Glu Glu Phe Pro Gln Phe Pro Asn Lys
1 5 10

<210> 8876

<211> 14

<212> PRT

<213> Homo sapiens

<220>

<221> VARIANT

<222> (7)...(0)

<223> cSNP translation

<400> 8876

Ile Phe Cys Phe Glu Thr Ala Tyr Cys Arg Val Gly Leu Gly
1 5 10

<210> 8877

<211> 14
<212> PRT
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<220>
<221> VARIANT
<222> (7)...(0)
<223> cSNP translation

<400> 8877
Asn Asp Lys Ser Val Gln Arg Ala Leu Asp Phe Ala Ile Ser
1 5 10

<210> 8878
<211> 14
<212> PRT
<213> Homo sapiens

<220>
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<222> (7)...(0)
<223> cSNP translation

<400> 8878
Arg Tyr Gln Ser Arg Val Ile Gln Gly Leu Val Ala Gly Glu
1 5 10

<210> 8879
<211> 14
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<222> (7)...(0)
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<400> 8879
Ala Asp Val Asp Gln Gln Gly Leu Val Arg Ser Leu Ile Ala
1 5 10

<210> 8880
<211> 14
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<213> Homo sapiens

<220>
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<222> (7)...(0)
<223> cSNP translation

<400> 8880
Ser Gly Arg Ala Ile Pro Lys Asn Gln Val Leu Gly Lys Ile
1 5 10

<210> 8881
<211> 14
<212> PRT
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<222> (7)...(0)
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<400> 8881

Asn Gln Gln Arg Pro Pro Arg Arg Gly His Arg Gln Leu Ser
1 5 10

<210> 8882

<211> 14

<212> PRT

<213> Homo sapiens

<220>

<221> VARIANT

<222> (7)...(0)

<223> cSNP translation

<400> 8882,

Pro Glu Ser Ser Gly Ser Arg Gln Gln Pro Gly Leu Ser Ala
1 5 10

<210> 8883

<211> 14

<212> PRT

<213> Homo sapiens

<220>

<221> VARIANT

<222> (7)...(0)

<223> cSNP translation

<400> 8883

Ala Leu Trp Glu Pro Lys Pro Lys Asn Ala Ser Lys Val Ala
1 5 10

<210> 8884

<211> 14

<212> PRT

<213> Homo sapiens

<220>

<221> VARIANT

<222> (7)...(0)

<223> cSNP translation

<400> 8884

Thr Ser Gln Ala Thr Arg Ser Arg Thr Asn Arg Ser Ser Val
1 5 10

<210> 8885

<211> 14

<212> PRT

<213> Homo sapiens

<220>

<221> VARIANT

<222> (7)...(0)

<223> cSNP translation

<400> 8885

Ser Val Lys Thr Pro Glu Pro Val Val Pro Thr Ala Pro Glu
1 5 10

<210> 8886

<211> 14

<212> PRT

<213> Homo sapiens

<220>

<221> VARIANT

<222> (7)...(0)

<223> cSNP translation

<400> 8886

Ala Thr Arg Gly Arg Lys Ser Arg Ser Ser Val Lys Thr Pro
1 5 10

<210> 8887

<211> 14

<212> PRT

<213> Homo sapiens

<220>

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<222> (7)...(0)

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<400> 8887

Thr Val Val Pro Thr Ala Leu Glu Leu Gln Pro Ser Thr Ser
1 5 10

<210> 8888

<211> 14

<212> PRT

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<221> VARIANT

<222> (7)...(0)

<223> cSNP translation

<400> 8888

Pro Ser Thr Ser Thr Asp Arg Pro Val Thr Ser Glu Pro Thr
1 5 10

<210> 8889

<211> 14

<212> PRT

<213> Homo sapiens

<220>

<221> VARIANT

<222> (7)...(0)

<223> cSNP translation

<400> 8889

His Cys Cys Gln Pro Lys Ala Pro Cys Cys Ile Gln Ala Arg
1 5 10

<210> 8890

<211> 14

<212> PRT

<213> Homo sapiens

<220>

<221> VARIANT

<222> (7)...(0)

<223> cSNP translation

<400> 8890

Gln Asn Ser Glu Arg Gly Trp Ala Trp Trp Leu Thr Pro Val
1 5 10

<210> 8891
<211> 14
<212> PRT
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<220>
<221> VARIANT
<222> (7)...(0)
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<400> 8891
Arg Ala Tyr Thr Ala Ala Arg Val Leu Thr Thr Ala Ala Val
1 5 10

<210> 8892
<211> 6
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<220>
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<222> (7)...(0)
<223> cSNP translation

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Leu Gln Val Gly Gln Glu
1 5

<210> 8893
<211> 14
<212> PRT
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<220>
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<222> (7)...(0)
<223> cSNP translation

<400> 8893
Arg Gly Arg Ser Thr Tyr His Trp Pro Arg Pro Arg Arg Tyr
1 5 10

<210> 8894
<211> 14
<212> PRT
<213> Homo sapiens

<220>
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<222> (7)...(0)
<223> cSNP translation

<400> 8894
Gly Pro Lys Pro Glu Ala Asp Ser Gln Glu Gln Gly His Pro
1 5 10

<210> 8895
<211> 14
<212> PRT
<213> Homo sapiens

<220>
<221> VARIANT
<222> (7)...(0)
<223> cSNP translation

<400> 8895
Cys His Ile Leu Leu Gly Asn Tyr Ser Val Ala Val Ala Asp
1 5 10

<210> 8896
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<221> VARIANT
<222> (7)...(0)
<223> cSNP translation

<400> 8896
Leu Gln Asn Gly Ser Glu Ser Glu
1 5

<210> 8897
<211> 14
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<222> (7)...(0)
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<400> 8897
Val Pro Leu Phe Lys Ile Cys Val Ala Glu Leu Ile Gln Gln
1 5 10

<210> 8898
<211> 14
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<220>
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<222> (7)...(0)
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<400> 8898
Tyr His Lys Leu Cys Leu His Trp Arg Leu Ser Lys Arg Lys
1 5 10

<210> 8899
<211> 14
<212> PRT
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<220>
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<400> 8899
Pro Glu Cys Glu Ile Arg Met Met Gly Gly Arg Glu Gln Arg
1 5 10

<210> 8900
<211> 6
<212> PRT
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<220>
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<222> (7)...(0)
<223> cSNP translation

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Gln Ser Lys Ser Leu Glu
1 5

<210> 8901
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<221> VARIANT
<222> (7)...(0)
<223> cSNP translation

<400> 8901
Asn Pro Val Val Val Gly Lys Lys Ile Gln Lys
1 5 10

<210> 8902
<211> 14
<212> PRT
<213> Homo sapiens

<220>
<221> VARIANT
<222> (7)...(0)
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<400> 8902
Met Lys Ala Ser Glu Leu Lys Gln Glu Gln Glu Arg Glu Gly
1 5 10

<210> 8903
<211> 14
<212> PRT
<213> Homo sapiens

<220>
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<222> (7)...(0)
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<400> 8903
Leu Glu Gln Glu Gln Glu Thr Glu Gly Ser Arg Ile Ile Ala
1 5 10

<210> 8904
<211> 14
<212> PRT
<213> Homo sapiens

<220>
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<222> (7)...(0)
<223> cSNP translation

<400> 8904
Ser Gly Gly Val Val Lys Ser Asn Phe Val Pro Thr Asn Val
1 5 10

<210> 8905
<211> 14
<212> PRT
<213> Homo sapiens

<220>
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<222> (7)...(0)
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<400> 8905
Pro His Thr Asn Pro Pro Glu Tyr Glu Phe Ser Trp Gly Pro
1 5 10

<210> 8906
<211> 14
<212> PRT
<213> Homo sapiens

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Ser Gln Val Phe Gln Ser Lys Phe Phe Ser Gly Leu Met Trp
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Trp Pro Gly Pro Ser Leu Ile Gly Ser Trp Ser Thr Pro Arg
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Gly Ser Val Asp Val Ser Ala Glu Ile Gly Val Trp Ser Asp
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Tyr Glu Lys Asp Leu Arg Thr Met Ile Ser
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Val Ser Pro Val Ser Pro Pro Gln His Trp Pro Lys Thr Ser
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Phe Val Glu Pro Pro Gln Leu Lys Arg Lys Arg Lys Arg Ser
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Asp Lys Gly Gly Leu Gln Leu Gln Ile Pro Arg Met Thr Pro
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Thr Leu Phe Val Gly Leu Arg Pro Leu Gln Ile Ala Leu Pro
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Thr Phe Asp Glu Glu Leu Arg His Cys Gln Cys Leu Ser Val
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Asp Val Val Gly Gln Ala Ala Ser Arg Arg Leu Ser Gln Gly
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Ser Val Ser Leu Ala Glu Gly Leu Gln Gln Phe Phe Ile Ile
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Glu Ser Asp Thr Gly Leu Ala His Gln His Ser Gly Ile Trp
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Phe Pro Met Pro Asn Glu Glu Pro Gly Pro Glu Ser Cys Arg
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Ile Ile Gly Leu Leu Leu Ala Pro Arg Pro Thr Ser Thr Ala
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<400> 8936

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Leu Leu Ala
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<400> 8937

Ile Leu Gln Leu Arg Ala Ala Thr Trp Thr Trp Gly Ser Thr
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<400> 8938

Lys Pro Thr Pro Glu Lys Asp Gln Leu Ala Pro Ala Met
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<400> 8939

Thr Leu Lys Pro Thr Pro Glu Lys Gly Pro Ser Trp His Leu
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<221> VARIANT

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<223> cSNP translation

<400> 8940

Cys Pro Leu Pro Arg Gly Arg Gly Leu Gly Gly Ser Val Met
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<400> 8941
Thr Ser Leu Arg Val Ser Cys Arg Ser Arg Gly Ala Ser Gly
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Pro Ser Gly Ser Gln Arg Pro Ala Ser Pro Met Thr
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<400> 8945
Lys Arg Asn Arg Pro Pro Trp Lys Lys Met Met Lys Arg Gly
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1 5 10

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<211> 14
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His Arg Asn Ser Ser Val Gln Cys Glu Ser Cys Met Val Pro
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<211> 14
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Val Lys Val Leu Gly Leu Pro Pro Arg Ser Gln His Trp Gly
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Arg Ala Thr Arg Asn Pro Val Gly Gly Trp Arg Met Leu
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Gly Phe Glu Gly Glu Arg Ala Ser Arg Gly Ser Gln Glu Arg
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Leu Leu Val Gly Gly Ser Thr
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<400> 8963

Val Thr Arg Phe Tyr Arg Glu Pro Arg Leu Ala Leu Pro Arg
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Ser Cys His Ile Gly Lys
1 5

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Met Ser Glu Cys Glu Ala Ala Leu
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<220>
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<400> 8966
Tyr Cys Asp Glu His Phe Glu Asp Ser Val Arg Lys Leu Leu
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<400> 8968
Val Pro Leu Thr Asp Thr Ala Met Arg Gly Ser Pro Arg Asp
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<220>
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Glu Met Glu Val Lys Cys Asn Leu Lys Trp Val Thr
1 5 10

<210> 8970
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<220>
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Pro Ile Val Val Leu Asn Ala Ser Ala Pro Ser Thr Arg Pro
1 5 10

<210> 8971
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<212> PRT
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Arg Phe Pro Asp Pro Pro Gly Gln Leu Pro His Ser Gly Ala
1 5 10

<210> 8972
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<212> PRT
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<220>
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<400> 8972
Leu Arg Ser Ala Pro Pro Ala Arg Leu Arg Gly His
1 5 10

<210> 8973
<211> 14
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1 5 10

<210> 8974
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1 5 10

<210> 8975
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1 5 10

<210> 8976
<211> 10
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<220>
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<223> cSNP translation

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Ala Gln Gln His Gln Ala Arg Arg Leu Pro
1 5 10

<210> 8977
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<222> (7)...(0)
<223> cSNP translation

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<220>
<221> VARIANT
<222> (14)...(0)
<223> cSNP translation

<400> 8978
Asp Tyr Ser Leu Ala Ala Gly Leu Phe Pro Gly Cys Ser Pro His Ser Ser
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Trp Ser Leu
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<210> 8979
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<212> PRT
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<220>
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<222> (7)...(0)
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<400> 8979
Gly Val Gln His Ile His Phe His Arg Ala Thr Ile Leu Ala
1 5 10

<210> 8980
<211> 14
<212> PRT
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<220>
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<222> (7)...(0)
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<400> 8980
Asn Val Leu Ala Pro Lys Glu Leu Gln Ala Pro Gly Lys Thr
1 5 10

<210> 8981
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<212> PRT
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<222> (7)...(0)
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<400> 8981
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1 5 10

<210> 8982
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<222> (8)...(0)
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<400> 8982
Ser Arg Pro Gln Leu Gly Arg Leu Cys Arg Val Ala Pro Met
1 5 10

<210> 8983
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<212> PRT
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<220>
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<222> (8)...(0)
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<400> 8983
Leu Val Lys Met Ala Gly Lys Arg Pro Phe Gln His Gln Ala
1 5 10

<210> 8984
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<400> 8984
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1 5 10

<210> 8985
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<400> 8985
Thr Tyr Phe Val Ala Leu Pro Gly Trp Glu
1 5 10

<210> 8986
<211> 14
<212> PRT
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<220>
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<222> (8)...(0)
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<400> 8986
Glu Glu Thr Thr Trp Gln Gly Ser Arg Ser Trp Gly Pro Leu
1 5 10

<210> 8987
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<220>
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<400> 8987
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1 5 10

<210> 8988
<211> 14
<212> PRT
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<220>
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<400> 8988
Ser Arg Ser Leu Ser Glu Ala Thr Pro Arg Pro Ser Met Arg
1 5 10

<210> 8989
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<220>
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<400> 8989
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1 5 10

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<220>
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<400> 8990
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1 5 10

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<220>
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<400> 8991
Glu Ala Ala Leu Asn Glu Tyr Cys Gly Ser Arg Gln
1 5 10

<210> 8992
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<220>
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<400> 8992
Lys Thr Ile Glu Ala Glu Ala Leu Met Gly Pro Ser Pro Ala
1 5 10

<210> 8993
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<220>
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<400> 8993
Ile Arg Leu Gly Leu Asp Gln Asn Tyr Trp Leu Lys Ser
1 5 10

<210> 8994
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<212> PRT
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<400> 8994
Val Val Arg Leu Val Lys Pro Gln Pro Ser
1 5 10

<210> 8995
<211> 14
<212> PRT
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<223> cSNP translation

<400> 8995

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Ser Ile Lys Leu Gly Leu Ala His Ser Thr Ser Asp Tyr Gln
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Phe Ser Cys Pro Lys Lys Thr Pro Phe Ser Ser Gln Lys Lys
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Tyr Gly Gly Asp Arg Gly Tyr Gly Gly Asp Arg Gly Tyr Gly Gly Asp Arg
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 Gly Gly Tyr Gly Gly Asp Arg Gly Gly
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Gly Arg Arg Asp Arg Gly Ala Met Glu Ala Lys Trp Glu Glu
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Gln Met Ala Leu Pro Thr Glu Met Ala His Thr Phe Lys Tyr
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Asp Lys Gly Asn Gly Asp Ala Pro Pro Thr Ala Gly Gly Gly
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Pro Gly Asp Lys Gly Asn Ala Met Pro Pro Pro Thr Ala Gly
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Arg Gly Pro Pro Pro Gly Gly Pro Ala Ala Ala Ala Arg Arg
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Arg Glu Gln Val Glu Lys Lys His Glu Arg Cys Lys Arg Gln
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Lys Met Gly Gly Asp Ile Ala Thr Gly Tyr Phe Gly Pro Trp
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Ser Ser Phe Leu Gln Gln
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Gly Arg Thr Arg Leu Arg Pro Arg Gly Gln Arg Trp Gly Gly
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Lys Gln Asp Pro Pro Val Ile Met Asn Leu Glu Tyr His Leu
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Ser Arg Lys Arg Leu Asn Val

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Pro Arg Glu Gly Asp Glu Asn Thr Lys

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Gly Ser Asn Ile Ile Tyr Leu Leu Lys Leu Val Tyr Glu Arg

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Leu Arg Glu Ala Leu Cys Gly Val Leu Asn

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Pro Ile Arg Ile Ala Asp Gly Met Ser Arg Leu Leu Ala Leu

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Asn Ala Thr Asn Ala Ile Gly Pro Pro Leu Leu Ser Leu Ser
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<222> (8)...(0)

<223> cSNP translation

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Ile Ile Ser Met Leu Thr Arg

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Lys Lys Ser Gly Pro Arg His Arg Ala Pro Gly Lys Arg Arg

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<400> 9076

End Arg Met Ser Ala Gly Ala Phe Leu Leu Gly Thr Ala Ser

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Glu Ala Gly Lys Arg Gly Arg Leu Arg Thr Pro Pro Phe Tyr
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1 5 10

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Arg Ser Gly Arg Ala Gly Arg Arg Ala Gln Val Ser Val Ser
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Ala Ala Lys Lys Asp Pro Gln Arg Val Thr Gly His
1 5 10

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Val Val Lys Pro Lys Lys Arg Arg Pro Arg Arg
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Lys Val Val Lys Pro Lys Lys Arg Arg Pro Arg Arg
1 5 10

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Thr Val Thr Lys Lys Val Leu Arg Ala Gln Arg Arg Pro Arg
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Ala Thr Val Thr Lys Lys Val Leu Arg Ala Gln Arg Arg Pro
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Lys Lys Ala Lys Lys Pro Pro Arg Pro Leu
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<223> cSNP translation

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<223> cSNP translation

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<210> 9105

<211> 14

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<220>

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<223> cSNP translation

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Met Met Phe Pro Ala Pro Pro Ser Asp Cys Arg Ser Pro Arg
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<211> 14

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Ser Arg Leu Arg Arg His His Ser Leu Pro Ser Leu Ser Gln
1 5 10

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<211> 14

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<223> cSNP translation

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Glu His Leu Arg Gln Phe Cys Leu Ser
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1 5 10

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Phe Leu Asn Lys Lys Ser Met
1 5

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Leu
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<223> cSNP translation

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<213> Homo sapiens

<220>
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<400> 9119
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1 5 10

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1 5 10

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Arg Tyr Phe Gln Gly Leu Gly Pro His Arg Ser Ser Arg
1 5 10

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Tyr Val Lys His Leu Lys Ala Arg Met Arg Lys Pro
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Glu Val Ala Arg Leu Leu Ala Ala Val Ile His Trp Pro Arg
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Cys Ala Val Gln Gln Tyr Ala Gly Gly Arg Trp Val Pro Thr
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1 5 10

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<223> cSNP translation

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1 5

<210> 9139

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Cys Arg Tyr Asp Pro Glu Gly Thr Ile Gln Gly Ser Arg Trp
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Arg Tyr Asp Pro Glu Gly Thr Ile Gln Gly Ser Arg Trp Leu
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Gly Ala Arg Gly Arg Arg Arg Ala Gly Pro Arg Pro Leu Arg
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Ala Cys Leu Leu Ser Ala Ala Ala Leu Cys
1 5 10

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Tyr Gly Val Val Leu Tyr Asp Leu
1 5

<210> 9145
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Glu Leu Glu Glu Glu Ile Thr Tyr Gly Lys Val Trp Asn Gln
1 5 10

<210> 9146
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Glu Val Asp Asp Leu Pro Ser Leu Ala Gly Cys Gly Ala Pro
1 5 10

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His Glu Ala Glu Ala Glu Asp Gln Arg Leu Ala Ser Gln Arg
1 5 10

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<400> 9148
Pro Pro His Leu Arg Ser Gln Arg Ala Leu Pro Pro Ser Pro
1 5 10

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<220>
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Pro Pro His Leu Arg Ser Pro Ser Gly His Tyr His Pro His
1 5 10

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1 5 10

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1 5 10

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1 5 10

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<223> cSNP translation

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<223> cSNP translation

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<211> 14
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<213> Homo sapiens

<220>
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<222> (7)...(0)
<223> cSNP translation

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His His Ser Ser Arg Lys Glu Met Arg Ser Pro Lys Arg Leu
1 5 10

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<220>
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Gly Cys His His Ser Ser Arg Lys Gln Met Arg Ser Pro Lys
1 5 10

<210> 9160

<211> 14
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<220>
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<400> 9160
Lys Ala Val His Glu Gln Leu Gln Pro Ser Leu Ser Pro Ser
1 5 10

<210> 9161
<211> 14
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<220>
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<400> 9161
Pro Pro Asp His Glu Val Val Pro Trp Pro Ala Ser Ser Arg
1 5 10

<210> 9162
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<212> PRT
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<220>
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<400> 9162
Asp Thr Leu Gly Ala Val Ala Ser Arg Gly Leu Ile Ser Ser
1 5 10

<210> 9163
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<212> PRT
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<222> (7)...(0)
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Phe Leu Arg Gln Glu Leu Leu Cys Ala Trp Pro Thr Ser
1 5 10

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Thr Gln

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<211> 14

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<400> 9165

Gly Ala Leu Leu Gly Thr Thr Ala Ser Ser Ala Ala Ser Ala

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<210> 9166

<211> 14

<212> PRT

<213> Homo sapiens

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<221> VARIANT

<222> (9)...(0)

<223> cSNP translation

<400> 9166

Thr Gly Ala Leu Ala Ala Ala Lys Ser Leu Lys Pro Arg Val

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<210> 9167

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<212> PRT

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<400> 9167

Leu Gln Gln Gly Leu Leu His Thr Val Ala

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<223> cSNP translation

<400> 9168

Leu Glu Ala Trp Arg Pro Gly Lys His Ser Gln Ser Thr Ser

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<222> (8)...(0)

<223> cSNP translation

<400> 9169

Leu Glu Ala Trp Arg Pro Gly Lys His Ser Gln Ser Thr Ser
1 5 10

<210> 9170

<211> 14

<212> PRT

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<223> cSNP translation

<400> 9170

Leu Glu Arg Gly Glu Arg Leu His Gly Pro Thr Asn Val Pro
1 5 10

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<223> cSNP translation

<400> 9171

Ala Trp Leu Glu Ala Lys Pro Ser Ala Arg Gly Ser Trp Arg
1 5 10

<210> 9172

<211> 14

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<222> (7)...(0)

<223> cSNP translation

<400> 9172

Lys Ser Thr Leu Leu Phe Ala Lys Gly Pro Lys Gln Leu Arg
1 5 10

<210> 9173

<211> 14

<212> PRT

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<223> cSNP translation

<400> 9173

Glu Glu Arg Leu Ser Thr Pro Gly Gly Leu Gly Ala Arg Ala
 1 5 10

<210> 9174
 <211> 14
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 Gln Thr Gly Val Thr Gly Ser Pro Ser Pro Val Thr Cys Ala
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Val Glu Phe Glu Phe Arg Asp Asn Tyr Asn Asp Trp Ser Ser
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Leu Leu Val Glu Phe Glu Phe Ala Gln Leu Gln Arg Leu Glu
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Pro Gly Cys Pro His Pro Ala Pro Arg Ser Gly Leu Leu Arg
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Gly Leu Thr Ala Asp Phe Ser Gly Ser Met Ser Arg Cys Ile
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Gln Met Ser Ala Pro Pro Pro
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Gly Asn Ala Glu Ala Glu Thr Ser Lys Leu Leu Asp Pro Arg
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<400> 9196
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Asp Leu Ala Leu Cys Pro Ala Trp Ala Leu Arg Lys
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<400> 9198
Lys Asn His Val Ala Val Pro His Thr Ser Ser Arg Cys
1 5 10

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<400> 9199
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<400> 9200
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<400> 9202

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<400> 9203

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<400> 9204

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<400> 9205

Leu Asp Ser Gln Gly Asp Ala Ala Ala Ser Leu Ile Arg Phe
1 5 10

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<400> 9206
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1 5 10

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<400> 9207
Pro Asp Thr Ile Ser Ile Ala His Gly Arg Leu Arg Thr Arg
1 5 10

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<400> 9208
Lys Pro Gly Leu Arg Arg Ser Pro Ile Lys Lys Val Arg Lys
1 5 10

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Cys Ile Arg Asp Arg Glu Gln Ala Pro Trp Val Gln Gln Ala
1 5 10

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Leu Leu His
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<400> 9213
Ala His Ile Ser Ser Cys Lys Trp Ala Pro Arg Cys His Trp
1 5 10

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<400> 9214

Gly Ala Leu Glu Gly Ser Ala Val Pro Ser Glu Gln Leu Trp
1 5 10

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<400> 9217
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Trp Met Arg Ile
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Gln Gly Leu Ile Glu Lys Phe Met Ser Leu Ile Val Ala Ile
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Arg Thr Phe
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Leu Ala Arg Ala Ala Ser Leu Ala Leu Ala Ser Cys Phe Cys
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1 5 10

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Lys Phe Cys Glu Ala Pro Ala Ala Ala Trp Leu Cys Thr Ala
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<222> (8)...(0)
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1 5 10

<210> 9239
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<400> 9242
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Gly Phe Leu Asn Gly Arg Ala Val
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<210> 9244
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Leu Glu Asp Gln Glu Gln Leu Cys Gly Ala Ser Asp Pro Leu
1 5 10

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<400> 9245
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Leu Asp Ala
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Arg Pro Pro Leu Ala Glu Thr Ser Leu Met Asn Ser Asp Lys
1 5 10

<210> 9247
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1 5 10

<210> 9248
<211> 14
<212> PRT
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<400> 9248
Val Asn Leu Arg Ser Leu Pro Ala Ser Pro Ser Ala Ser Arg
1 5 10

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<400> 9249
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1 5 10

<210> 9250
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<400> 9250
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1 5 10

<210> 9251

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<400> 9251
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1 5 10

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<400> 9252
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1 5 10

<210> 9253
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<400> 9253
Arg Arg Ile Asp Ile Arg Leu Tyr Pro Lys Ile Ser Ile Thr
1 5 10

<210> 9254
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<400> 9254
Leu Asp Leu Glu Arg Met Arg Leu Pro Ser Arg Trp Thr Thr
1 5 10

<210> 9255
<211> 14
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<400> 9255

Thr Val His Val Thr Arg Ser Arg Ser Ser Thr Ser Thr Ser
1 5 10

<210> 9256

<211> 14

<212> PRT

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<400> 9256

Tyr Cys Met Ala Val Cys Ala Ala Pro Cys Pro Lys Val Tyr
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<210> 9257

<211> 14

<212> PRT

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<400> 9257

Lys Gln Cys Arg Arg Thr Gly Pro Cys Arg Ala Thr Ser Val
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<210> 9258

<211> 14

<212> PRT

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<223> cSNP translation

<400> 9258

Val Ser Asp Asp Ser Arg Arg Trp Gly Ser Ser Ala Ala Thr
1 5 10

<210> 9259

<211> 14

<212> PRT

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<223> cSNP translation

<400> 9259

Thr Leu Pro Arg Gly Thr Ala Lys Lys Gly Lys Gly Pro Ala
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<210> 9260

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<212> PRT

<213> Homo sapiens

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<223> cSNP translation

<400> 9260

Met Asp Glu Asn Ser Glu Lys

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<210> 9261

<211> 14

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<400> 9261

Gly Pro Gly Ser Ser Gly Arg Gly Leu Asn Pro Trp Lys Pro

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<210> 9262

<211> 14

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Tyr Pro Cys Gly Ser Ala Ser Ile Gln Leu Ser Thr Pro Arg

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Trp Ile His Glu Pro Lys Ala Thr Met Pro Thr Ser Ala Ser
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Gln Pro Arg Arg Arg Lys Phe Glu Thr Trp Arg Thr His Trp
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<400> 9433

Ala Val Ile Ala Ala Val Asn His Ser Ala Pro Ala Val Ser
1 5 10

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1 5 10

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<400> 9437
Arg Gly Leu Ala Ser Pro Leu
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<210> 9438
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<400> 9438
His Phe Leu Ala Thr Ala Ala Pro Arg Pro Trp Pro Leu Ala
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<210> 9440
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<400> 9527
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<400> 9528
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Val Pro Pro Lys Ala Ser Arg Pro Arg Ser Ala Ser His Cys
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Val Val Pro Pro Glu Pro Gly Pro Ala Ser Ser Pro Ser Pro
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Arg Glu Gly Glu Ser Pro Ala Gln Gly Pro Leu Pro Arg Ser
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Val Gln Cys Leu Pro Ser Arg Gly Leu Gln Arg Gly Arg Glu
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Asn Arg Arg Pro Cys Phe Ser Ala Trp Trp Trp Met Lys His
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Thr Met Lys Gln Glu Phe Pro His
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Gly Leu Leu Glu Lys Cys Ser Lys Ala Arg Asn Arg Lys Ser
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Leu Pro Ala Glu Thr Arg Gln
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Tyr Gln Leu Arg Ala Cys Pro Ala Ile Ser Leu Ile Phe Pro
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Glu Ser Pro Pro Pro Leu Ala Leu Arg Pro Arg Thr Arg Gln
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Gly Ile Gln Ser Asp Pro Gln Pro Trp Ala Ala Ser Ala Gly
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Gly Val Pro Arg Pro Gln Trp Cys Pro Ser Leu Val Pro
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Leu Ser Leu Pro Gly Tyr Arg Pro Pro Leu Ala Val Leu Leu
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Arg Arg Ala Arg Arg Ala Pro Leu Glu Gln Ile Ser Trp Ile
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<222> (8)...(0)

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Gly Arg Pro Arg Ala Arg Pro Glu Glu Thr Gly
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Val Val Asp Leu Leu Ala Gln Thr Pro Thr Ser Cys Ala Ala
1 5 10

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Asp Leu Leu Ala Gln Asp Ala Thr Ser Cys Ala Ala Ala Arg
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<223> cSNP translation

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<212> PRT

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<223> cSNP translation

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Leu His Asp Arg Ser Phe Thr Thr Gln Gly Thr Ala Arg Arg
1 5 10

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<211> 20

<212> PRT

<213> Homo sapiens

<220>

<221> VARIANT

<222> (13)...(0)

<223> cSNP translation

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<210> 9603
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 Asp Pro Ala
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<220>
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Val Leu Thr Lys Pro Leu Glu Pro Arg Leu Leu Ser Met Pro
1 5 10

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Ala Gln Ser Val Gly Arg Ala Ser Trp Ser Thr Thr Lys Ser
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<210> 9610
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Lys Glu Glu Val Ser Arg Gln Ser
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<400> 9611

Ala Lys Phe His His Ser Ile Ala Phe Gln Pro Gly Tyr Phe
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<210> 9612

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<223> cSNP translation

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Arg Phe Arg Gly Pro Asp Trp Cys Ala Ala Trp
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<222> (8)...(0)

<223> cSNP translation

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Lys Ala Arg Asp Cys Trp Ala Pro Ser Ser Ser Pro Gly Val
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<210> 9614

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<212> PRT

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<223> cSNP translation

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<212> PRT

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<223> cSNP translation

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<210> 9617

<211> 14

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<223> cSNP translation

<400> 9617

Arg Ile Leu Ala Met Lys Ala Arg Ser Ala Ser Cys Arg Pro
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<212> PRT

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<223> cSNP translation

<400> 9618

Thr Val Gln Leu Trp Pro Gly
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<210> 9619

<211> 7

<212> PRT

<213> Homo sapiens

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Thr Cys Ala Ala Pro Arg Gly Pro Arg Ser Pro Gly Ser Gln
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 Pro Glu Arg Gly Phe Leu His Gln Leu Gln Lys Asn Met Ala
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Gln Asp Asp Val Arg Asp Ala Trp Pro Gln Thr Ala Leu Pro
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Tyr His Pro
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Asp Leu Cys Glu Glu Ala Cys Gly Thr Met Arg Thr Ser Pro
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Ile Glu Phe Gly Gln Arg Met Ser Arg Trp His Leu Lys Pro
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Pro Gly Pro Met Glu Pro Pro Val Ser Gly Pro Asp Val Pro
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Pro Gly Pro Met Glu Pro Pro Val Ser Gly Pro Asp Val Pro
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Gly Leu Ser Gln Phe Cys Arg Ser Met Glu Lys Arg Ala
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Leu Leu Cys Asn Thr Phe Tyr Val Thr Phe Leu Phe Pro Leu
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Leu Leu Cys Asn Thr Phe
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Arg Asp Ser Ala Cys Trp Ser Gln Arg Lys Asp Glu Leu Leu
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Ser Glu Ala
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Gln Thr His Gly Pro Pro Gly Ala Pro Leu Thr Ile Arg Gly
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Ser Leu Lys Arg Ser Leu Gly Thr Cys Thr Ser Pro Leu Gly
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Tyr Phe Pro Thr Glu Arg Ala Ser Pro Trp Cys Thr Val Pro
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Phe Gly Pro Lys Gly Phe Ala Met Ala Lys Glu Gln Gly Leu
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Ala Gly Gly Lys Lys Ala Glu Pro Gln Pro Gln Pro

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Gly Asp Lys Gly Ala Arg Arg Ala Gly Ser Gln Ala Ala Ala

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Glu Arg Cys His Gly Leu Ser Ser Gln Trp Lys Ile Ala Tyr
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Arg Cys His Gly Leu Ser Ser Gln Trp Lys Ile Ala Tyr Ile
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<400> 9839
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<400> 9845

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<212> PRT

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Gly Ser Ala Pro Ser Gly Gly Thr Arg Pro Ser Trp Ala Trp
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Glu Glu Arg Ala Cys Glu Gly Ala Asn Leu Pro Gln
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<210> 9856

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<212> PRT

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Val Leu Ser Pro Lys Pro Gln Leu His His Gln His His Leu
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<210> 9857

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<212> PRT

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Ala Leu Met Pro Glu Val Ala Ala Cys Ser Thr His Gly Cys
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<210> 9858

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<212> PRT

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<212> PRT

<213> Homo sapiens

<220>

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<222> (8)...(0)

<223> cSNP translation

<400> 9859

Ala	Ser	Asp	Asn	Ile	Pro	Lys	Gln	Thr	Lys	Ser	Gly	Pro	Trp
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<211> 14

<212> PRT

<213> Homo sapiens

<220>

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<222> (7)...(0)

<223> cSNP translation

<400> 9860

Leu	Leu	Gln	Gly	Leu	Gly	Ile	Cys	Cys	Trp	Glu	Phe	Pro	Pro
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<210> 9861

<211> 14

<212> PRT

<213> Homo sapiens

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<222> (9)...(0)

<223> cSNP translation

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<222> (7)...(0)

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Phe Gly Ala Arg Gln Met Ala Gly Pro Trp Trp Ile Ser Cys
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 Ala Arg Gln Met Gly Trp Ala Trp Trp Ile Ser Cys Trp Ser
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 His Gly Trp Arg Gly Gly Arg Gly Cys Gln
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Gln Ser Phe Leu Tyr Gly Asn Met Cys
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Pro Asn Ser Leu His Gly Gly Val Arg
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Lys Ser Ser Arg
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<220>
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<400> 9870
Met Cys Leu Gly Trp Ser Phe Glu Tyr Ala Leu Gly Cys Ser
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<212> PRT
<213> Homo sapiens

<220>
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Leu Gly Leu Thr Arg Ile Arg Thr Gly Thr Gly Met Cys Ser
1 5 10

<210> 9872
<211> 8
<212> PRT
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<220>
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Met Gly Leu Ala Gly Arg Ala Glu
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<212> PRT
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<400> 9873
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<212> PRT
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<223> cSNP translation

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<220>
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<400> 9879
Gln Ala Asp Val Val Val Ala Arg Ser Asp Thr Ala Ile Leu
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Ser Ile Lys Thr
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<211> 9
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<220>
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<400> 9882
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<400> 9883
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1 5 10

<210> 9885
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Ala Ala Met Cys Phe Pro Lys Ser Ser Leu Met Thr

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Tyr Ala Ile Thr Val Trp Tyr Leu Met Gln Met Arg Glu His
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Ala Thr Phe Cys Ser Leu Pro Gln
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1 5 10

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<400> 10038

Pro Gly Thr Cys Pro Pro Ala Ser Ser Pro Ser Leu Leu Val
1 5 10

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(72) Inventors; and

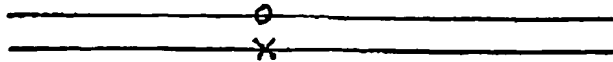
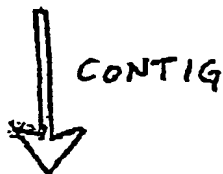
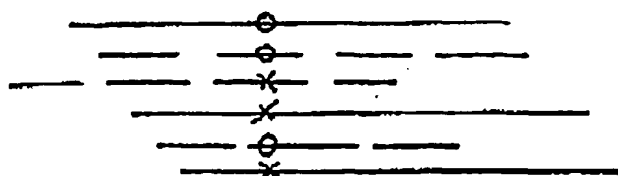
(75) Inventors/Applicants (*for US only*): **SHIMKETS,**
Richard, A. [US/US]; 191 Leete Street, West Haven,

*For two-letter codes and other abbreviations, refer to the "Guid-
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ning of each regular issue of the PCT Gazette.*

(54) Title: NUCLEIC ACIDS CONTAINING SINGLE NUCLEOTIDE POLYMORPHISMS AND METHODS OF USE
THEREOF



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PUBLIC
CURAGEN

o REF
X SNP (VARIANT)

KNOWN
NOVEL

(57) Abstract: The invention provides nucleic acids containing single-nucleotide polymorphisms identified for transcribed human sequences, as well as methods of using the nucleic acids.

INTERNATIONAL SEARCH REPORT

International Application No

PCT/US 00/35498

A. CLASSIFICATION OF SUBJECT MATTER

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G01N33/53 A61K48/00 A61K39/395 A61K38/00

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

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Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

SEQUENCE SEARCH, EPO-Internal, WPI Data, PAJ, MEDLINE, BIOSIS, EMBASE, CHEM ABS Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 5 656 477 A (VITEK MICHAEL PETER ET AL) 12 August 1997 (1997-08-12) abstract * see especially SEQ ID NO.6, nucleotides 2772-2822 * column 29 -column 40 ---	1-3
Y	WO 98 20165 A (WHITEHEAD BIOMEDICAL INST ; HUDSON THOMAS (US); LANDER ERIC S (US);) 14 May 1998 (1998-05-14) the whole document ---	1-35, 41-44
Y	WO 98 38846 A (LIPSHUTZ ROBERT J ; BERNO ANTHONY (US); CHEE MARK (US); FAN JIAN BI) 11 September 1998 (1998-09-11) the whole document --- -/--	1-35, 41-44

☒ Further documents are listed in the continuation of box C.☒ Patent family members are listed in annex.

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INTERNATIONAL SEARCH REPORT

International Application No

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	FAN J ET AL: "Genetic mapping: Finding and analyzing single-nucleotide polymorphisms with high-density DNA arrays" AMERICAN JOURNAL OF HUMAN GENETICS, UNIVERSITY OF CHICAGO PRESS, CHICAGO,, US, vol. 61, no. 4, SUPPL, 1 October 1997 (1997-10-01), page 1601 XP002089397 ISSN: 0002-9297 abstract ---	1-35, 41-44
Y	WANG D G ET AL: "Large-scale identification, mapping, and genotyping of single-nucleotide polymorphisms in the human genome" SCIENCE, AMERICAN ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE,, US, vol. 280, 1998, pages 1077-1082, XP002089398 ISSN: 0036-8075 the whole document ---	1-35, 41-44
A	WO 92 13069 A (IMPERIAL COLLEGE) 6 August 1992 (1992-08-06) the whole document ---	
A	US 5 795 963 A (MULLAN MICHAEL JOHN) 18 August 1998 (1998-08-18) the whole document -----	

Form PCT/ISA/210 (continuation of second sheet) (July 1992)

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US 00/35498

Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☒ Claims Nos.: 36-40
because they relate to subject matter not required to be searched by this Authority, namely:
see FURTHER INFORMATION sheet PCT/ISA/210
2. ☐ Claims Nos.:
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

see additional sheet

1. ☐ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☒ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:
Claims 1-35, 41-44 (partially)

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☐ No protest accompanied the payment of additional search fees.

Form PCT/ISA/210 (continuation of first sheet (1)) (July 1998)

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

Invention 1: Claims 1-35, 41-44 (partially)

An isolated polynucleotide according to SEQ ID NOS:1 or 2 comprising a polymorphic site, a fragment or complementary sequence thereof comprising such a polymorphic site, an allele-specific oligonucleotide hybridising to such a polynucleotide at the polymorphic site, methods of detecting such a polymorphic site, a method of determining the relatedness of a first and second nucleic acid, based on such a polymorphic site, an isolated polypeptide comprising such an (encoded) polymorphism, an antibody binding to such a polypeptide, a method of detecting a polypeptide comprising such a polymorphism, methods of treating a subject suffering from being at risk of a pathology related to such a polymorphism, as well as an oligonucleotide array comprising oligonucleotides hybridising to such polymorphic sites.

Inventions 2 to 7865: Claims 1-35,
41-44 (partially)

An isolated polynucleotide according to SEQ ID NOS:3 comprising a polymorphic site, a fragment or complementary sequence thereof comprising such a polymorphic site, an allele-specific oligonucleotide hybridising to such a polynucleotide at the polymorphic site, methods of detecting such a polymorphic site, a method of determining the relatedness of a first and second nucleic acid, based on such a polymorphic site, an isolated polypeptide comprising such an (encoded) polymorphism, an antibody binding to such a polypeptide, a method of detecting a polypeptide comprising such a polymorphism, methods of treating a subject suffering from being at risk of a pathology related to such a polymorphism, as well as an oligonucleotide array comprising oligonucleotides hybridising to such polymorphic sites.

...ibidem inventions 3 to 7865

Invention 7866: Claims 1-35, 41-44 (partially)

An isolated polynucleotide according to SEQ ID NOS:7867 comprising a polymorphic site, a fragment or complementary sequence thereof comprising such a polymorphic site, an allele-specific oligonucleotide hybridising to such a polynucleotide at the polymorphic site, methods of detecting such a polymorphic site, a method of determining the relatedness of a first and second nucleic acid, based on such a polymorphic site, an isolated polypeptide comprising

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

such an (encoded) polymorphism, an antibody binding to such a polypeptide, a method of detecting a polypeptide comprising such a polymorphism, methods of treating a subject suffering from being at risk of a pathology related to such a polymorphism, as well as an oligonucleotide array comprising oligonucleotides hybridising to such polymorphic sites.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

Continuation of Box I.1

Claims Nos.: 36-40

Claims 36-40 are directed to methods of treatment of the human body. They relate therefore to subject-matter considered by this Authority to be covered by the provisions of Rule 67.1(iv) PCT. Consequently, no opinion will be formulated with respect to the industrial applicability of the subject-matter of these claims (Article 34(4)(a)(i) PCT).

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/US 00/35498

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